

Amendments to the Claims

IN THE CLAIMS:

Please amend claims 1, 7, and 11 as follows:

1. (Currently Amended) A base station for a mobile radio system, including:
a plurality of repeaters that provide respective radio channels;
a station controller connected to each repeater; and
a radio antenna system connected to the repeaters;
wherein the repeaters provide a control channel and a plurality of traffic channels
for mobile users, ~~with allocation of the control channel being varied among the traffic
channels~~ the base station being arranged to proactively re-allocate the existing control
channel as a traffic channel and allocate one of the other traffic channels as a new control
channel.

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2. (Original) A base station according to claim 1, wherein:
the control channel is changed periodically from one repeater to another in a
round robin process.

3. (Original) A base station according to claim 1, wherein:
the control channel is changed periodically or non-periodically among the
repeaters in a random process.

4. (Original) A base station according to claim 1, wherein:

each repeater normally provides a traffic channel and the control channel is changed intermittently among the repeaters according to a predetermined process skipping those repeaters at which the traffic channel is busy.

5. (Original) A base station according to claim 1, wherein:

allocation of the control channel among the repeaters is determined by the station controller.

6. (Original) A base station according to claim 1, wherein:

each repeater includes a channel controller and allocation of the control channel from one repeater to another is determined by respective channel controllers.

7. (Currently Amended) A method of providing radio channels in a mobile communication system, including:

allocating a control channel and a plurality of traffic channels for mobile radios in the system; and

intermittently proactively re-allocating the control channel as a traffic channel and one of the other traffic channels as a new control channel.

8. (Original) A method according to claim 7, further including:

re-allocating the control channel among the traffic channels on a round robin basis.

9. (Original) A method according to claim 7, further including:
re-allocating the control channel among the traffic channels on a random basis.

10. (Original) A method according to claim 7, further including:
selecting a channel for re-allocation of the control channel by determining a free traffic channel in a channel control system.

11. (Currently Amended) A method of re-allocating a control channel in a radio base station, including:
proactively selecting an existing traffic channel to become a new control channel according to a predetermined process;
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denying new requests by mobile radios over a current control channel for access to traffic channels;
completing existing requests by mobile radios over the current control channel for access to traffic channels;
proactively allocating the selected traffic channel as the new control channel and allocating the current control channel as a traffic channel; and
receiving new requests by mobile radios over the new control channel for access to traffic channels.

12. (Original) A method according to claim 11, wherein:
the predetermined process includes a round robin poll of traffic channels to locate a channel not currently busy with traffic.

13. (Original) A method according to claim 12, wherein:

the poll takes place at periodic or random intervals.

14. (Original) A radio network including a base station that implements a method according to claim 7.

15. (Original) A radio network including a base station that implements a method according to claim 8.

16. (Original) A radio network including a base station that implements a method according to claim 9.

17. (Original) A radio network including a base station that implements a method according to claim 10.

18. (Original) A radio network including a base station that implements a method according to claim 11.

19. (Original) A radio network including a base station that implements a method according to claim 12.

20. (Original) A radio network including a base station that implements a method according to claim 13.